

## Wireless Communication Facilities Associated Definitions

### Retain the following definitions:

#### **18.20.870 Effective radiated power.**

“Effective radiated power” means the product of the *antenna* power input and the numerical *antenna* power gain.

#### **18.20.1880 Nonionizing electromagnetic radiation (NIER).**

“Nonionizing electromagnetic radiation (NIER)” means electromagnetic radiation of low photon energy unable to cause ionization.

#### **18.20.2210 Radio frequency.**

“Radio frequency” means the number of times the current from a given source of *nonionizing electromagnetic radiation* changes from a maximum positive level through a maximum negative level and back to a maximum positive level in one second; measured in cycles per second or Hertz (Hz).

### Add or amend the following definitions:

#### **18.20.     Amateur (ham) radio facility.**

“Amateur (ham) radio facility” means a wireless communication facility operated for personal use and without pecuniary interest by an individual licensed by the FCC. Amateur (ham) radio facilities use small shared frequency bands assigned by the FCC.

#### **18.20.180 Antenna.**

“Antenna” means any system of poles, panels, rods, reflecting discs or similar devices used for the transmission or reception of radio frequency signals. For purposes of KMC Chapter 18.60, antenna does not include an *amateur (ham) radio facility*.

#### **18.20.     Base station.**

“Base station” means the structure or equipment at a fixed location that enables wireless communications licensed or authorized by the FCC, between user equipment and a communications

network. The term does not encompass a tower or any equipment associated with a tower. The term includes, but is not limited to:

(i) Equipment associated with wireless communications services such as private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.

(ii) Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration (including Distributed Antenna Systems and small-cell networks).

(iii) Any structure other than a tower that, at the time an eligible communications facility modification (ECFM) application is filed with the city, supports or houses equipment described in paragraphs (i) - (ii) above, and that has been reviewed and approved under the applicable zoning or siting process, or under another State, county or local regulatory review process, even if the structure was not built for the sole or primary purpose of providing that support.

(iv) The term does not include any structure that, at the time a completed eligible communication facilities modification (ECFM) application is filed with the city, does not support or house equipment described in paragraphs (i) - (ii) above.

#### **18.20. Collocation.**

"Collocation" means the placement or installation of antennas on existing structures upon which antennas already exist.

#### **18.20. Distributed Antenna System (DAS).**

"Distributed Antenna System" or "DAS" means a network consisting of transceiver equipment at a central hub site to support multiple antenna locations throughout the desired coverage area.

#### **18.20.1575 Lattice-work tower.**

"Lattice-work tower" means a ~~transmission support structure~~ tower consisting of a self-supporting, multiple-sided, open steel frame structure, ~~that has open-framed supports on three or four sides and is constructed~~ without guy wires and ground anchors.

#### **18.20.1775 Monopole tower.**

"Monopole" means a ~~transmission support structure~~ consisting of a single pole, without guy wires or ground anchors.

#### **18.20. Satellite Dish.**

"Satellite dish" means a type of antenna, typically in the shape of a shallow dish or cone, that transmits to and/or receives signals from an orbiting satellite.

#### **18.20. Tower.**

"Tower" means any wireless communications structure that is designed and constructed primarily for the purpose of supporting one or more antennas. "Tower" includes a lattice tower or monopole. "Tower" does not include a replacement utility pole or an amateur (ham) radio facility.

#### **18.20.3060 Transmission support structure.**

"Transmission support structure" means a monopole or lattice-work tower specifically designed and intended to support antennas and related communication equipment. The term does not include monopoles or lattice-work towers supporting above-ground distribution or transmission lines for utility services such as electric, telephone, cable, etc.

#### **18.20.3065 Alternative transmission support structure, alternative.**

"Alternative transmission support structure" means the following manmade structures not specifically designed or intended to support antennas and related communication equipment, but that may be used for that purpose, including: clock towers, bell towers, church steeples, water towers, light poles, utility structures, elevated roadways, bridges, flagpoles, existing conforming telecommunications facilities, warehouses, factories, windmills, barns, silos, commercial and buildings, commercial signs, billboards, multifamily buildings, and publicly used structures such as police and fire stations, libraries, community centers, civic centers, courthouses, churches, schools, hospitals, and other similar structures as approved by the city manager.

#### **18.20. Wireless communication facility (WCF).**

"Wireless communication facility" or "WCF" generally means an unmanned facility for the transmission and/or reception of radio frequency (RF) signals or other wireless communications, typically consisting of one or more antennas, a transmission or alternative transmission support structure, cables and other transmission equipment, and an equipment enclosure or cabinets. Wireless communication facility shall not include equipment intended solely for internal household or business use such as wireless modems, cellular signal boosters, or personal cellular cellspots.

#### **Eliminate the following definitions:**

#### **18.20.498 Communication facility.**

A. Major Communication Facility. "Major communication facility" means a communication facility for transmission and reception of UHF and VHF television signals; or FM or AM radio signals.

B. Minor Communication Facility. "Minor communication facility" means a communication facility for transmission and reception of two-way and/or CB radio signals; point-to-point microwave signals; cellular radio signals; signals through FM radio translators; or signals through FM radio boosters under 10 watts effective radiated power (ERP).

May include NAICS 517 (Telecommunications).

#### **18.20.580 Consolidation.**

"Consolidation" means the relocation to a consolidated transmission structure of the main transmit *antennas* of two or more FCC broadcast licensees which prior to such relocation utilized transmission structures located within a 1,500-foot radius of the center of the consolidated transmission structure to support their main transmit *antennas*.

#### **18.20.860 Earth station.**

"Earth station" means a communication facility which transmits and/or receives signals to and from an orbiting satellite using satellite dish *antennas*.

#### **18.20.1700 Microwave.**

"Microwave" means electromagnetic waves with a frequency range of 300 megahertz (MHz) to 300 gigahertz (GHz).

#### **18.20.1762 Modification.**

For purposes of Chapter 18.60 KMC, "modification" means any structural change, addition, or alteration that was not included in an approved site plan. Modifications shall include increased heights and changes in *antenna* type.

#### **18.20.3040 Transmission equipment.**

"Transmission equipment" means equipment, such as *antennas* and satellite or point-to-point *microwave* dishes, that transmits or receives radio signals.

#### **18.20.3067 Transmission support structure, guyed.**

"Guyed transmission support structure" means a *transmission support structure* that is supported, in whole or in part, by guy wire and ground anchors.

#### **18.20.3070 Transmitter building.**

"Transmitter building" means a *building* used to contain communication *transmission equipment*.

#### **18.20.3307 Wireless services.**

~~“Wireless services” means commercial mobile services, unlicensed wireless services, and common carrier wireless exchange services.~~